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Relevance scale ☐ ☐ ☐ ☐ ☐**121** [Distributed teams: Capturing and supporting contexts for scientific data sharing via](#)[the biological sciences collaboratory](#)

George Chin, Carina S. Lansing

November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work**

Publisher: ACM Press

Full text available: [pdf\(1.29 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Scientific collaboration is largely focused on the sharing and joint analysis of scientific data and results. Today, a movement is afoot within the scientific computing community to shift "collaboratory" development from traditional tool-centric approaches to more data-centric ones. Yet, to effectively support data sharing means more than providing a common repository for storing and retrieving shared data sets. In order to reasonably comprehend and apply another researcher's data set, the sc ...

Keywords: collaboratory, data provenance, data sharing, data sharing contexts, data-centric collaboration, metadata, scientific workflow, tool-centric collaboration

122 [Computer-supported cooperative work: Architectural concerns in distributed and mobile collaborative systems](#)

Schahram Dustdar, Harald Gall


July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02**

Publisher: ACM Press

Full text available: [pdf\(304.21 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#)

There have been considerable attempts to integrate Workflow Management Systems (WfMS), Groupware Systems, and Business Process Modeling Systems to provide a uniform platform for distributed and mobile collaboration (DMC) of geographically dispersed project teams. Such distributed and mobile teamwork defines new challenges for current IT platforms in terms of architecture and business-specific configurations. This paper discusses architectural concerns for such DMC systems and provides a framework ...

Keywords: distributed and mobile collaborative systems, process awareness, software architecture


123 CHIME: a metadata-based distributed software development environment  Stephen E. Dossick, Gail E. Kaiser

October 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 7th European software engineering conference held jointly with the 7th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-7**, Volume 24 Issue 6

Publisher: Springer-Verlag, ACM Press

Full text available:  pdf(940.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduce CHIME, the Columbia Hypermedia IMmersion Environment, a metadata-based information environment, and describe its potential applications for internet and intranet-based distributed software development. CHIME derives many of its concepts from Multi-User Domains (MUDs), placing users in a semi-automatically generated 3D virtual world representing the software system. Users interact with project artifacts by "walking around" the virtual world, where they potentially en ...

124 A behavioral approach to software process modelling  L. G. Williams

April 1988 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 4th international software process workshop on Representing and enacting the software process**, Volume 14 Issue 4

Publisher: ACM Press

Full text available:  pdf(321.32 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

125 In-service QoS monitoring of real-time applications using SM MIB 


Yong-Hoon Choi, Iksoon Hwang

January 2005 **International Journal of Network Management**, Volume 15 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(235.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current network management needs an end-to-end overview of various flows rather than the information that is purely local to the individual devices. The typical manager-centric polling approach, however, is not suitable to understand network-wide behavior of a large-scale Internet. In this paper, we propose a new management information base (MIB) approach called Service Monitoring MIB (SM MIB). The MIB provides a network manager with dynamic end-to-end management information by utilizing special ...

126 The model, language, and implementation of an object-oriented multimedia  knowledge base management system

Hiroshi Ishikawa, Fumio Suzuki, Fumihiko Kozakura, Akifumi Makinouchi, Mika Miyagishima, Yoshio Izumida, Masaaki Aoshima, Yasuo Yamane

March 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 1

Publisher: ACM Press

Full text available:  pdf(3.23 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

New applications such as CAD, AI, and hypermedia require direct representation and flexible use of complex objects, behavioral knowledge, and multimedia data. To this end, we have devised a knowledge base management system called Jasmine. An object-oriented approach in a programming language also seems promising for use in Jasmine. Jasmine extends the current object-oriented approach and provides the following features. Our object model is based on functional data models and well-established ...

127 The database and information system research group at the University of ULM

 Peter Dadam, Wolfgang Klas
December 1997 **ACM SIGMOD Record**, Volume 26 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(523.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The University of Ulm was founded in 1967 with focus on medicine and natural sciences. In 1989 the University established two new faculties: Engineering Sciences and Computer Science. This enlargement took place within the framework of the so-called Science City Ulm. In a joint effort, the State of Baden-Württemberg, industrial companies, the University, and the City of Ulm successfully established a research and development infrastructure at or nearby the university c ...

128 Distributed consulting in a distributed environment

 Carla J. Fermann
August 1990 **Proceedings of the 18th annual ACM SIGUCCS conference on User services**

Publisher: ACM Press

Full text available:  [pdf\(413.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Project Athena is one of the world's largest centrally-administered distributed computer environments, linking more than 1,000 workstations. Students and faculty use workstations scattered across MIT's 146-acre campus, in public clusters, private offices, and labs. Users can login to any Athena workstation on campus to access their files, mail, software, and even other systems, through the network. To serve our widespread network of workstations and more than 9000 users, with a s ...

129 Toward a unified framework for version modeling in engineering databases


 Randy H. Katz
December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(3.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Support for unusual applications such as computer-aided design data has been of increasing interest to database system architects. In this survey, we concentrate on one aspect of such support, namely, version modeling. By this, we mean the concepts suitable for structuring a database of complex engineering artifacts that evolve across multiple representations and over time and the operations through which such artifact descriptions are created and modified. There have been ...

130 Issues in supporting event-based architectural styles

 Antonio Carzaniga, Elisabetta Di Nitto, David S. Rosenblum, Alexander L. Wolf
November 1998 **Proceedings of the third international workshop on Software architecture**

Publisher: ACM Press

Full text available:  [pdf\(483.38 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

131 Interactive posters: PhoneMan: the benefits of personal call histories

 David Millen, Don Henderson
April 2000 **CHI '00 extended abstracts on Human factors in computing systems**

Publisher: ACM Press

Full text available:  [pdf\(202.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In the PhoneMan research project we are exploring IP-based telephony control, new telephony interfaces, and non-traditional ways of merging telephony, messaging and

alerting. The PhoneMan application allows complete control and monitoring of an ISDN desktop phone from a local PC and remotely from the web. Current features include enhanced screen pops, which can be configured to query local or remote directories, including corporate directories and public white page services, and email call notif ...

Keywords: alerting, email, messaging, phone-based interfaces

132 Sense'n respond solutions: A sensor-based, web service-enabled, emergency medical response system

Nada Hashmi, Dan Myung, Mark Gaynor, Steve Moulton


June 2005 **Proceedings of the 2005 workshop on End-to-end, sense-and-respond systems, applications and services EESR '05**

Publisher: USENIX Association

Full text available:  pdf(238.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Recent advances in low power wireless sensor networks are enabling new and exciting applications for wireless devices. At the same time, the power and flexibility of web services is expanding the power of the internet. Herein, we describe a scalable emergency medical response system that couples the efficient data collection of sensor networks with the flexibility and interoperability of a web services architecture

133 Resource aware programming

 Luc Moreau, Christian Queinnec

May 2005 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 27 Issue 3


Publisher: ACM Press

Full text available:  pdf(807.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce the *Resource Aware Programming* framework, which allows users to monitor the resources used by their programs and to programmatically express policies for the management of such resources. The framework is based on a notion of hierarchical groups, which act as resource containers for the computations they sponsor. Asynchronous notifications for resource exhaustion and for computation termination can be handled by arbitrary user code, which is also executed under the control of ...

Keywords: Resource management, abstract machine, resource algebra, semantics

134 Mercury: a scalable publish-subscribe system for internet games

 Ashwin R. Bharambe, Sanjay Rao, Srinivasan Seshan

April 2002 **Proceedings of the 1st workshop on Network and system support for games**

Publisher: ACM Press

Full text available:  pdf(204.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Today's network games suffer from scalability and performance limitations caused by centralized client-server architectures and/or broadcast communication. In this paper, we argue that the communication between components of a game can be modeled as a *publish-subscribe* system. We present the design of MERCURY, a completely distributed publish-subscribe system, which supports a content-based publish-subscribe model of communication and performs distributed matching using a novel c ...

135 Toward Flexible Messaging for SOAP-Based Services

Geoffrey Fox, Shrideep Pallickara, Savas Parastatidis

November 2004 **Proceedings of the 2004 ACM/IEEE conference on Supercomputing**


Publisher: IEEE Computer Society

Full text available:  [pdf\(247.58 KB\)](#) Additional Information: [full citation](#), [abstract](#)

NaradaBrokering provides a messaging abstraction that allows it to provide message-related capabilities in a transparent fashion. These capabilities include message-based security, time and causal ordering, compression, virtualization of transport protocol and addressing, and fault tolerance related functionalities. NaradaBrokering is combined with further extensions to its existing capabilities and can also take advantage of the maturing of Web Service specifications to build very powerful general ...

Keywords: Performance, Design, Reliability, Distributed middleware, Grid computing, Web Services, service oriented architectures

136 MOVE:: component groupware foundations for collaborative virtual environments 

 Pedro García, Oriol Montalà, Carles Pairat, Robert Rallo, Antonio Gómez Skarmeta
September 2002 **Proceedings of the 4th international conference on Collaborative virtual environments**

Publisher: ACM Press

Full text available:  [pdf\(607.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The design of a Virtual Environment (VE) is a distributed problem of multi-user access to shared resources. Such problem requires careful design decisions in order to provide a seamless system infrastructure capable of supporting flexible interactions in the shared scenarios. The complexity of this domain has led to intricate software systems that provide ad-hoc solutions to specific problems. Furthermore, many of them have gone to a dead end, due to their non-extensible design and their lack of ...

Keywords: component groupware, distributed systems, frameworks, virtual environments

137 A predicate-based caching scheme for client-server database architectures 

Arthur M. Keller, Julie Basu

January 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(162.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We propose a new client-side data-caching scheme for relational databases with a central server and multiple clients. Data are loaded into each client cache based on queries executed on the central database at the server. These queries are used to form predicates that describe the cache contents. A subsequent query at the client may be satisfied in its local cache if we can determine that the query result is entirely contained in the cache. This issue is called *cache completeness*. A separ ...

Keywords: Cache completeness, Cache currency, Caching, Multiple clients, Relational databases

138 Linguistic supports for development of distributed organizational information systems in object-oriented concurrent computation frameworks 



Ken Wakita, Aki Yonezawa

October 1991 **ACM SIGOIS Bulletin , Conference proceedings on Organizational computing systems COCS '91**, Volume 12 Issue 2-3

Publisher: ACM Press

Full text available:  [pdf\(1.35 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

139 Epochs, configuration schema, and version cursors in the KBSA framework CCM model



John Kimball, Aaron Larson

May 1991 **Proceedings of the 3rd international workshop on Software configuration management**

Publisher: ACM Press

Full text available: pdf(1.06 MB) Additional Information: [full citation](#), [references](#), [index terms](#)



140 Efficient matching for state-persistent publish/subscribe systems

Hubert Ka Yau Leung, Hans-Arno Jacobsen

October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(341.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Content-based publish/subscribe systems allow information dissemination and fine-grained information filtering in loosely coupled distributed systems. Stateless publish/subscribe systems send notifications to all subscribers whose subscriptions match an incoming publication. State-persistent publish/subscribe systems, a recently proposed model that stores the states of both publications and subscriptions, only send notifications upon state transitions. The information filtering process requires ...

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